

AFT FLADE ENGINE

ABSTRACT

5 An aft FLADE gas turbine engine includes a fan
section drivenly connected to a low pressure turbine
section, a core engine located between the fan
bypass duct circumscribing the core engine and in
fluid communication with the fan section, and a mixer
10 downstream of the low pressure turbine section and in
fluid communication with the fan bypass duct, and an
aft FLADE turbine downstream of the mixer. At least
one row of aft FLADE fan blades disposed radially
outwardly of and connected to the aft FLADE turbine
and radially extending across a FLADE duct
15 circumscribing the fan bypass duct. The aft FLADE
turbine may be a free turbine or connected to and
rotatable with the low pressure turbine section. A
power extraction apparatus may be disposed within the
engine and drivenly connected to the aft FLADE
20 turbine.